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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,001	08/26/2003	Casey K. Lee	OSTEONICS 3.0-459	3316
530 LEDNER DAY	7590 08/21/2007 VID LITTENBERG	EXAMINER		
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK			SHAFFER, RICHARD R	
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER
,			3733	
		•	MAIL DATE	DELIVERY MODE
			08/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1						
	Application No.	Applicant(s)				
	10/648,001	LEE, CASEY K.				
Office Action Summary	Examiner	Art Unit				
	Richard R. Shaffer	3733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period variety received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 May 2007.						
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) ☐ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>26,31-36 and 38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>26,31-36 and 38</u> is/are rejected.						
• • • • • • • • • • • • • • • • • • • •	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in Application No						
application from the International Bureau	·					
* See the attached detailed Office action for a list of the certified copies not received.						
•	•					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Specification

The abstract of the disclosure is objected to because it does not meet the 50-150 word requirement as well as being a brief but concise description of what applicant feels is novel. Specifically, the abstract is too short and fails to discuss the method of making a lumbar/thoracic implant. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26, 31-36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al (US Patent Application Publication 2002/0016633).

Lin et al disclose making (Column 2, Paragraph 0032 and 0033) an intervertebral spacer from bone harvested from the calcaneus with various configurations such as square, rectangular, angled, circular, hexagonal, and a trailing end having angled walls (22). Lin et al specifically discuss making horizontal cuts across the metaphysics of a long bone such that anatomical loading for the spacer is the same as the donor location. Therefore, about 98% of each cut would be cancellous bone with a thin layer of cortical bone surrounding the cancellous bone. The bone as long as it is healthy (as it should be, otherwise it would not be selected as donor bone) would be able to support 1000 pounds. Therefore, Lin et al disclose cutting a portion of the calcaneus into two or more

subsections (each cross-sectional piece). Each piece having a thin layer of cortical bone formed integral and partially surrounding a core of cancellous bone.

Lin et al fail to disclose how a cut would specifically be made in the calcaneus from a donor and therefore is silent whether the cut is perpendicular to the long axis of the calcaneus. Applicant has not stated any unexpected result or benefit of performing cross-sectional cuts perpendicular to the long axis of the calcaneus and actually states that such is not the only possible direction for cutting. It would have been obvious to one having ordinary skill in the art to consider making cross-sectional cuts either perpendicular to the long axis of the calcaneus or perpendicular to the axial loading axis as a matter of mere preference with no unforeseen benefits or results.

It would have been further been obvious to extract the calcaneal bone from a living donor of similar genetic composition in cases where the subjects own bone would be detrimental (severe arthritis, cancer, osteoporosis, general bone disease) while reducing the likelihood of tissue rejection by the subject's immune system as well as reducing additional trauma to the patient if bone was acquired from a deceased individual.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment of "formed integral" necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**.

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See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard R. Shaffer whose telephone number is 571-272-8683. The examiner can normally be reached on Monday-Friday (7am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Shaffer August 17th, 2007

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